

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

Waterway			Bank	Unit Miles
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek			Left	3.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/11/2018 - 4/11/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_MA0017_01_s_2013_7				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_MA0017_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_MA0017_01_s_2013_9				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	3.50	Rating **	M	Issue No.	17
LM End	3.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.147927 °	39.147927 °
				-122.911294 °	-122.911294 °
DWR ID	DWR_MA0017_01_f_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.60	Rating **	A	Issue No.	26
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.146885 °	39.146885 °
				-122.909932 °	-122.909932 °
DWR ID	DWR_MA0017_01_s_2018_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation has been removed from the landside slope.					

Photo 1 of 1 : SP_2018_MA0017_339_26_20180416_00044.jpg



View of the levee with no vegetation on the landside slope.

LM Start	3.81	Rating **	M	Issue No.	15
LM End	3.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.144980 °	39.144620 °
				-122.907073 °	-122.906546 °
DWR ID	DWR_MA0017_01_s_2016_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large bushes and brambles covering wire fence, limiting visibility and access.					

Photo 1 of 1 : SP_2018_MA0017_339_15_20180305_00003.jpg



View of the large bushes limiting visibility and access.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	3.84	Rating **	M	Issue No.	25
LM End	3.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.144695 °	39.144695 °
				-122.906668 °	-122.906668 °
DWR ID	DWR_MA0017_01_s_2017_25				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim the trees along the landside toe.					

Photo 1 of 1 : SP_2018_MA0017_339_25_20180305_00006.jpg



View of the trees along the landside toe.

LM Start	3.95	Rating **	A/W	Issue No.	36
LM End	3.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °
				-122.904798 °	-122.904798 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50814 DS_ID:844 EP_NO: 11463 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/19/2016 Crossing appears to be in good ondition. (DWR Sutter Yard- A/Freitag)6/14/2016 crossing appears to be in good condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 New flap gate installed. No other issues with pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (24- inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Audrey Jones). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 3.99)]. FS Date: 11/21/2016 12:09:38 PM					

Photo 1 of 3 : UCIP_SP_2018_50814_46849.jpg



24-inch CMP at outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	3.95	Rating **	A/W	Issue No.	36 (cont)
LM End	3.95	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.143792 °	39.143792 °
				-122.904798 °	-122.904798 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50814
DS_ID:844
EP_NO: 11463
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good ondition.
(DWR Sutter Yard- A Freitag) 6/14/2016 crossing appears to be in good condition. 4/23/2015 No issues with pipe. 7/3/2014 Same as last inspection. 12/23/2013 Same as last inspection. 8/2/2013 New flap gate installed. No other issues with pipe.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Flap gate on the waterside (WS) end. Timber walkway on the landside (LS) slope to a timber walkway to pump house mounted on piles in drainage ditch. (24-inch pipe [HLM 3.99] authorized under Automatic Board Order (ABO) issued as Permit No. 11463, 1975 - Audrey Jones). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 3.99)].
FS Date: 11/21/2016 12:09:38 PM

LM Start	3.95	Rating **	A/W	Issue No.	36 (cont)
LM End	3.95	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_50814_46848.jpg



Pumphouse on piles at LS toe.

Photo 3 of 3 : UCIP_SP_2018_50814_46850.jpg



New flap gate on WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	3.96	Rating **	M	Issue No.	16
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.143741 °	39.143585 °
				-122.904705 °	-122.903482 °
DWR ID	DWR_MA0017_01_s_2016_16				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large bushes and brambles growing on wire fence on LS toe limiting visibility and access.					

Photo 1 of 1 : SP_2018_MA0017_339_16_20180305_00004.jpg



5/2/2016: Remove or trim dense vegetation growing on fence to allow visibility and access to L/S toe.

LM Start	4.13	Rating **	A/W	Issue No.	37
LM End	4.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °
				-122.902436 °	-122.902436 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50815 DS_ID:845 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goiid condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:10:29 PM					

Photo 1 of 3 : UCIP_SP_2018_50815_46853.jpg



Pumping Plant on LS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	4.13	Rating **	A/W	Issue No.	37 (cont)
LM End	4.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142287 °	39.142287 °
				-122.902436 °	-122.902436 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50815
DS_ID:845
EP_NO: 11464
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 6/14/2016 crossing appears to be in good condition. 4/23/2015 No issues with pipe. 7/3/2014 Same as last inspection. 12/23/2013 Same as last inspection. 8/2/2013 Same as last inspection.
FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 1 of 2: 42-inch corrugated metal drainage pipe through the levee, 20.2 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)].
FS Date: 11/21/2016 12:10:29 PM

LM Start	4.13	Rating **	A/W	Issue No.	37 (cont)
LM End	4.13	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_50815_46852.jpg



Slide gates in CMP risers on WS shoulder.

Photo 3 of 3 : UCIP_SP_2018_50815_46851.jpg



Pumping Plant on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	4.14	Rating **	A/W	Issue No.	38
LM End	4.14	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °
				-122.902423 °	-122.902423 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50816 DS_ID:852 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goioid condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:11:01 PM					

LM Start	4.14	Rating **	A/W	Issue No.	38 (cont)
LM End	4.14	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_50816_46856.jpg



Pumping plant on LS shoulder.

Photo 2 of 3 : UCIP_SP_2018_50816_46855.jpg



Slide gate in CMP riser on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	4.14	Rating **	A/W	Issue No.	38 (cont)	
LM End	4.14	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.142262 °	39.142262 °	
				-122.902423 °	-122.902423 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50816 DS_ID:852 EP_NO: 11464 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 crossing appears to be in goioid condition.4/23/2015 No issues with pipe.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Bloody Island Pumping Plant] 2 of 2: 42-inch corrugated metal drainage pipe through the levee, 14.6 feet below the crown. Concrete headwall and discharge apron on the waterside (WS) shoulder. Three vertical pump units mounted on a reinforced concrete pump platform in drainage ditch at the landside (LS) toe. Flap gates in concrete discharge well on the LS. Combination flap and slide gate on a gravity pipe from drainage ditch into discharge well. (two 42-inch pipes [HLM 4.18] authorized under Automatic Board Order (ABO) issued as Permit No. 11464, 1975 - Lake County). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.2, August 1961, (HLM 4.18)]. FS Date: 11/21/2016 12:11:01 PM						

Photo 3 of 3 : UCIP_SP_2018_50816_46854.jpg



Pumping plant on LS shoulder.

LM Start	4.16	Rating **	U	Issue No.	2
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.141894 °	39.120609 °
				-122.902201 °	-122.887166 °
DWR ID	DWR_MA0017_01_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive, and overgrown with weeds, brush and trees. Road follows LS toe.					

Photo 1 of 2 : SP_2018_MA0017_339_2_20180305_00001.jpg



View of the trees along the waterside slope and toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	4.16	Rating **	U	Issue No.	2 (cont)	
LM End	7.10	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			39.141894 °	39.120609 °	
				-122.902201 °	-122.887166 °	
DWR ID	DWR_MA0017_01_s_2012_2					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive, and overgrown with weeds, brush and trees. Road follows LS toe.						

Photo 2 of 2 : SP_2018_MA0017_339_2_20180305_00002.jpg



Photo taken at LM 6.41 looking west showing overgrown LS slope of levee at right and toe road at left. Note trees obstructing visibility and access at levee crown. Crown is +/- 5 feet wide, and impassible to vehicles due to vegetation, and in some places, to pedestrians.
4/19/2016

LM Start	4.27	Rating **	M	Issue No.	39
LM End	4.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140422 °	39.140422 °
				-122.902022 °	-122.902022 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50817 DS_ID:846 EP_NO: 11462 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 Still no lid on riser and wheel to operate slide gate is missing.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 No lid on riser-may or may not be an issue. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11462, 1975 - Hobson) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 11/21/2016 12:11:29 PM					

Photo 1 of 2 : UCIP_SP_2018_50817_46858.jpg



Slide gate in CMP riser on WS slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	4.27	Rating **	M	Issue No.	39 (cont)	
LM End	4.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.140422 °	39.140422 °	
				-122.902022 °	-122.902022 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50817 DS_ID:846 EP_NO: 11462 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 Still no lid on riser and wheel to operate slide gate is missing.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 No lid on riser-may or may not be an issue. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11462, 1975 - Hobson) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 11/21/2016 12:11:29 PM						

Photo 2 of 2 : UCIP_SP_2018_50817_46857.jpg



LS toe at approximate location of pipe inlet.

LM Start	4.55	Rating **	M	Issue No.	27
LM End	7.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.136650 °	39.118672 °
				-122.900850 °	-122.884865 °
DWR ID	DWR_MA0017_01_s_2018_27				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the native vegetation from the landside slope.					

Photo 1 of 1 : SP_2018_MA0017_339_27_20180416_00045.jpg



View of the levee with native vegetation over 1 foot tall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	4.55	Rating **	M	Issue No.	28
LM End	7.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.136650 °	39.118672 °
				-122.900850 °	-122.884865 °
DWR ID	DWR_MA0017_01_s_2018_28				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove the vegetation from the crown and waterside slope.					

Photo 1 of 1 : SP_2018_MA0017_339_28_20180416_00046.jpg



View of the vegetation on the crown and waterside slope.

LM Start	4.77	Rating **	A/W	Issue No.	29	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			39.134166 °		°
				-122.898473 °		°
DWR ID	DWR_MA0017_01_f_2017_29					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:22						
Site Designation:81-10						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	5.33	Rating **	A/W	Issue No.	35	
LM End	5.43	Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			39.127455 °	39.127431 °	
				-122.893662 °	-122.891920 °	
DWR ID	DWR_MA0017_01_f_2017_35					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:21						
Site Designation:81-8						
Repair Type: Seepage						
Rating:						
Field Date:						
Notes:						

No Photos

LM Start	5.34	Rating **	M	Issue No.	40
LM End	5.34	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50818					
DS_ID:847					
EP_NO: 11469					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- A Freitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring is still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue.					
FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 5 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 36-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)].					
FS Date: 11/21/2016 12:11:57 PM					

Photo 1 of 2 : UCIP_SP_2018_50818_46860.jpg



Pumping plant, pipes, and ring levees on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	5.35	Rating **	M	Issue No.	41
LM End	5.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127451 °	39.127451 °
				-122.893450 °	-122.893450 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50819 DS_ID:853 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- A Freitag)6/14/2016 Sack ring is still built up underneath the pipes.4/23/2015 Sack ring still built up underneath the pipes.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainage pipe through the levee, 5 feet below the crown. Flap gate and air vent on the waterside (WS) slope. (one 36-inch and one 16-inch pipes [HLM 5.43] authorized under Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)]. FS Date: 11/21/2016 12:12:31 PM					

LM Start	5.35	Rating **	M	Issue No.	41 (cont)
LM End	5.35	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_SP_2018_50819_46864.jpg



Pipes and pump house on LS toe with ring levees.

Photo 2 of 2 : UCIP_SP_2018_50819_46863.jpg



Pipe, flap gate, air vent, and sandbags on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	5.78	Rating **	M	Issue No.	42
LM End	5.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.127612 °	39.127612 °
				-122.885520 °	-122.885520 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50820
DS_ID:848
EP_NO: 11457
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- A Freitag) 6/14/2016 No riser lid and no wheel to operate screw gate. 4/23/2015 No cover on riser and no wheel to operate gate. 7/3/2014 Same as last inspection. 12/23/2013 Same as last inspection. 8/2/2013 Handle to operate gate was in place but still no cover on riser. 12/13/2012 No cover on CMP riser and no handle for actuating gate. This may or may not be an issue.
FIELD_STRUCT_DESC: 24-inch drainage pipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landside (LS) end. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Riser unit is mounted on concrete base. (24-inch pipe [HLM 5.87] authorized under Automatic Board Order (ABO) issued as Permit No. 11457, 1975 - Crawford). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.87)].
FS Date: 11/21/2016 12:12:57 PM

LM Start	5.78	Rating **	M	Issue No.	42 (cont)
LM End	5.78	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_SP_2018_50820_46866.jpg



36-inch CMP riser and slide gate on WS slope.

Photo 2 of 2 : UCIP_SP_2018_50820_46865.jpg



Approximate location of inlet on LS toe (not visible).

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	5.96	Rating **	A/W	Issue No.	43	
LM End	5.96	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.126322 °	39.126322 °	
				-122.882764 °	-122.882764 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50821 DS_ID:849 EP_NO: 11467 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana) 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/14/2016 Flap gate propped open. Will make sure its closed before flood season.4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season.7/3/2014 Same as last inspection12/23/2013 Same as last inspection.8/2/2013 Same as last inspection. FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage] 1 of 2: 54-inch corrugated metal drainage pipe through the levee 11.5 feet below the crown. Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 42-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)]. FS Date: 11/21/2016 12:13:32 PM						

LM Start	5.96	Rating **	A/W	Issue No.	43 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_50821_46869.jpg



Concrete weir/dam and channel on LS toe.

Photo 2 of 3 : UCIP_SP_2018_50821_46868.jpg



pipe and flap gate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	5.96	Rating **	A/W	Issue No.	44
LM End	5.96	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126298 °	39.126298 °
				-122.882756 °	-122.882756 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50822
 DS_ID:854
 EP_NO: 11467
 Repair Type: No Action Needed
 Crossing Status: Found
 UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)
 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 6/14/2016 Flap gate propped open. Will make sure its closed before flood season. 4/23/2015 Flap gate propped open. Not an issue at this time. Will close it before high water season. 7/3/2014 Same as last inspection. 12/23/2013 Same as last inspection. 8/2/2013 Same as last inspection.
 FIELD_STRUCT_DESC: [Highland Canal Diversion Weir and Drainage]
 2 of 2: 54-inch corrugated metal drainage pipe through the levee, 11.5 feet below the crown Highland Canal Diversion Weir and Drainage Structure on the landside (LS). Concrete headwall on both landside (LS) and waterside (WS) toe with flap gate on the WS toe. (two 42-inch pipes [HLM 6.05] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.05)].
 FS Date: 11/21/2016 12:14:05 PM

LM Start	5.96	Rating **	A/W	Issue No.	44 (cont)
LM End	5.96	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_50822_46872.jpg



Concrete dam/weir and channel on LS toe.

Photo 2 of 3 : UCIP_SP_2018_50822_46871.jpg



Pipe and flap gate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
--	--	---	--	---	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	5.99	Rating **	M	Issue No.	45
LM End	5.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126057 °	39.126057 °
				-122.883096 °	-122.883096 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50823 DS_ID:20589 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 12" pipe not present for this inspection. (DWR Sutter Yard- A Freitag)6/14/2106 12" pipe was removed from the roadway. Portable pump was not found on the bank this time.4/23/2015 12" pipe still ran over the top of roadway. 7/3/2014 Same as last inspection.12/23/2013 No signs of 12" pvc. Portable tow-pump was lowered down on waterside with 12" pipe ran over roadway.8/2/2013 Same as last inspection.12/13/2012 No permit for crossing. FIELD_STRUCT_DESC: *REMOVED* 12-inch high-density polyethylene (HDPE) drainage pipe through the levee, 1.5 feet below the crown. No permit has been identified since crossing was field discovered in 2012. FS Date: 11/21/2016 12:14:52 PM					

Photo 1 of 1 : UCIP_SP_2018_50823_47920.jpg



Portable pump on WS and temporary piping over roadway

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	6.00	Rating **	U	Issue No.	46	
LM End	6.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.126038 °	39.126038 °	
				-122.883351 °	-122.883351 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50824 DS_ID:20587 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosoin is still present. (DWR Sutter Yard - aFreitag)4/23/2015 Erosion on WS shoulder is still present. (DWR Sutter Yard - aFreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - aFreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - aFreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - aFreitag)12/13/2012 No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 11467). (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 4-inch polyvinyl chloride (PVC) conduit of an unknown purpose through the levee, 2 feet below the crown, with plastic pipe running through it to pump on the landside (LS). No permit has been identified since crossing was field discovered in 2012. FS Date: 11/21/2016 12:15:33 PM						

LM Start	6.00	Rating **	U	Issue No.	46 (cont)
LM End	6.00	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_50824_46878.jpg



4-inch pvc pipe with green flexible pipe running through it on WS shoulder.

Photo 2 of 3 : UCIP_SP_2018_50824_46877.jpg



4-inch pvc pipe with green flexible pipe running through it on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	6.00	Rating **	U	Issue No.	46 (cont)	
LM End	6.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.126038 °	39.126038 °	
				-122.883351 °	-122.883351 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50824 DS_ID:20587 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- A Freitag)6/14/2016 WS erosoin is still present. (DWR Sutter Yard - afreitag)4/23/2015 Erosion on WS shoulder is still present. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - afreitag)12/13/2012 No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 11467). (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 4-inch polyvinyl chloride (PVC) conduit of an unknown purpose through the levee, 2 feet below the crown, with plastic pipe running through it to pump on the landside (LS). No permit has been identified since crossing was field discovered in 2012. FS Date: 11/21/2016 12:15:33 PM						

Photo 3 of 3 : UCIP_SP_2018_50824_46876.jpg



LS pump station on shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	6.00	Rating **	U	Issue No.	47 (cont)
LM End	6.00	Issue Type +	En	Location *	

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	6.00	Rating **	U	Issue No.	47 (cont)	
LM End	6.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.126038 °	39.126038 °	
				-122.883351 °	-122.883351 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50825 DS_ID:20588 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- A Freitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - a Freitag)4/23/2015 Erosion still present on WS shoulder. (DWR Sutter Yard - a Freitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - a Freitag)12/13/2012 No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet. (DWR UCIP - wwyliie) FIELD_STRUCT_DESC: 4-inch polyvinyl chloride (PVC) conduit of an unknown purpose through the levee, 2 feet below the crown, with hydraulic lines running through it to pump on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012. FS Date: 11/21/2016 12:16:01 PM						

Photo 3 of 3 : UCIP_SP_2018_50825_46875.jpg



Erosion on WS shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	6.00	Rating **	U	Issue No.	48
LM End	6.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50826 DS_ID:850 EP_NO: 11467 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- A Freitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - a Freitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - a Freitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)12/13/2012 This pipe and appurtenances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwyllie) FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2 feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electrical panel, along with multiple valves and appurtenances, on the LS shoulder. (12-inch pipe [HLM 6.11] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - B. F. Modglin[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, 1967, (HLM 6.11)]. FS Date: 11/21/2016 12:16:25 PM					

LM Start	6.00	Rating **	U	Issue No.	48 (cont)
LM End	6.00	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_50826_46882.jpg



12-inch pipe and appurtenances on WS shoulder.

Photo 2 of 3 : UCIP_SP_2018_50826_46881.jpg



12-inch pipe and appurtenances on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	6.00	Rating **	U	Issue No.	48 (cont)	
LM End	6.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.126027 °	39.126027 °	
				-122.883371 °	-122.883371 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50826 DS_ID:850 EP_NO: 11467 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - aFreitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - aFreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - aFreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - aFreitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - aFreitag)12/13/2012 This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2 feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electrical panel, along with multiple valves and appurtenances, on the LS shoulder. (12-inch pipe [HLM 6.11] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - B. F. Modglin[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, 1967, (HLM 6.11)]. FS Date: 11/21/2016 12:16:25 PM						

Photo 3 of 3 : UCIP_SP_2018_50826_46880.jpg



Pumping plant and appurtances on LS shoulder.

LM Start	6.03	Rating **	U	Issue No.	23
LM End	7.28	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			39.126045 °	39.118727 °
				-122.883828 °	-122.884842 °
DWR ID	DWR_MA0017_01_s_2017_23				
Comment Code					
Inspector Comment					
There was water along the landside slope so that area was unable to be inspected.					

Photo 1 of 1 : SP_2018_MA0017_339_23_20180305_00005.jpg



View of the water along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	7.16	Rating **	M	Issue No.	49
LM End	7.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50827 DS_ID:851 EP_NO: 11467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 Abandoned- should be done so properly. (DWR Sutter Yard- A Freitag)6/14/2016 Abandoned crossing.4/23/2015 Same as last inspection. Pipe still needs to be properly abandoned.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 Pipe should be properly abandoned. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through the levee, 8 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. Steel plate welded on end of pipe at LS toe. (one 16-inch and one 24-inch pipes [HLM 7.79] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 7.19)]. FS Date: 11/21/2016 12:16:52 PM					

LM Start	7.16	Rating **	M	Issue No.	49 (cont)
LM End	7.16	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_SP_2018_50827_46884.jpg



Pumping plant in shed on LS at drainage ditch.

Photo 2 of 2 : UCIP_SP_2018_50827_46883.jpg



Steel plate welded over end of pipe at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
---	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	04/11/2018 04/11/2018	Bob Duffey

LM Start	7.16	Rating **	A/W	Issue No.	50
LM End	7.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.120069 °	39.120069 °
				-122.886484 °	-122.886484 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50828
DS_ID:855
EP_NO: 11467
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: 10/19/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 6/14/2016 Crossing appears to be in good condition. 4/23/2015 No issues seen with pipe. 7/3/2014 Same as last inspection. 8/2/2013 Same as last inspection. 12/23/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 8 feet below the crown.
Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (one 16-inch and one 24-inch pipes [HLM 7.79] authorized under Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 7.19)].
FS Date: 11/21/2016 12:17:36 PM

LM Start	7.16	Rating **	A/W	Issue No.	50 (cont)
LM End	7.16	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP_SP_2018_50828_46886.jpg



24-inch steel pipe and pump house on LS.

Photo 2 of 2 : UCIP_SP_2018_50828_46885.jpg



Air vent on pipe at LS pump house.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---